RAW SEQUENCE LISTING
ERROR REPORT

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Application Serial Number: 10|689,677A

Source: T F W O

Date Processed by STIC: 4|9|04

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2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
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1. EFS-Bio <u>(<http://www.uspto.gov/ebc/efs/downloads/documents.htm></u> , EFS Submission User Manual - ePAVE)
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Revised 10/08/03

IFWO

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             RAW SEQUENCE LISTING                  DATE: 04/09/2004
             PATENT APPLICATION:  US/10/689,677A   TIME: 16:19:57

             Input Set : A:\sequences for 08702.0093-00000.txt
             Output Set: N:\CRF4\04092004\J689677A.raw

      3 <110> APPLICANT: Wyeth
      4        Wolfman, Neil
      5        Bouxsein, Mary
      7 <120> TITLE OF INVENTION: ActRIIB Fusion polypeptides and Uses Therefor
      9 <130> FILE REFERENCE: 08702.0093-00000
C-->  11 <140> CURRENT APPLICATION NUMBER: US/10/689,677A
C-->  11 <141> CURRENT FILING DATE: 2003-10-22
     11 <160> NUMBER OF SEQ ID NOS: 6
     13 <170> SOFTWARE: PatentIn version 3.1
     15 <210> SEQ ID NO: 1
     16 <211> LENGTH: 512
     17 <212> TYPE: PRT
     18 <213> ORGANISM: Human
     20 <400> SEQUENCE: 1
     22 Met Thr Ala Pro Trp Val Ala Leu Ala Leu Leu Trp Gly Ser Leu Cys
     23 1               5                   10                  15
     26 Ala Gly Ser Gly Arg Gly Glu Ala Glu Thr Arg Glu Cys Ile Tyr Tyr
     27             20                  25                  30
     30 Asn Ala Asn Trp Glu Leu Glu Arg Thr Asn Gln Ser Gly Leu Glu Arg
     31          35                  40                  45
     34 Cys Glu Gly Glu Gln Asp Lys Arg Leu His Cys Tyr Ala Ser Trp Ala
     35       50                  55                  60
     38 Asn Ser Ser Gly Thr Ile Glu Leu Val Lys Lys Gly Cys Trp Leu Asp
     39 65                  70                  75                  80
     43 Asp Phe Asn Cys Tyr Asp Arg Gln Glu Cys Val Ala Thr Glu Glu Asn
     44                 85                  90                  95
     47 Pro Gln Val Tyr Phe Cys Cys Cys Glu Gly Asn Phe Cys Asn Glu Arg
     48             100                 105                 110
     51 Phe Thr His Leu Pro Glu Ala Gly Gly Pro Glu Val Thr Tyr Glu Pro
     52          115                 120                 125
     55 Pro Pro Thr Ala Pro Thr Leu Leu Thr Val Leu Ala Tyr Ser Leu Leu
     56       130                 135                 140
     59 Pro Ile Gly Gly Leu Ser Leu Ile Val Leu Leu Ala Phe Trp Met Tyr
     60 145                 150                 155                 160
     63 Arg His Arg Lys Pro Pro Tyr Gly His Val Asp Ile His Glu Asp Pro
     64             165                 170                 175
     67 Gly Pro Pro Pro Pro Ser Pro Leu Val Gly Leu Lys Pro Leu Gln Leu
     68             180                 185                 190
     71 Leu Glu Ile Lys Ala Arg Gly Arg Phe Gly Cys Val Trp Lys Ala Gln
     72          195                 200                 205
     75 Leu Met Asn Asp Phe Val Ala Val Lys Ile Phe Pro Leu Gln Asp Lys
     76       210                 215                 220
     79 Gln Ser Trp Gln Ser Glu Arg Glu Ile Phe Ser Thr Pro Gly Met Lys
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RAW SEQUENCE LISTING   DATE: 04/09/2004
PATENT APPLICATION: US/10/689,677A   TIME: 16:19:57

Input Set : A:\sequences for 08702.0093-00000.txt
Output Set: N:\CRF4\04092004\J689677A.raw

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80 225                    230                  235                    240
83 His Glu Asn Leu Leu Gln Phe Ile Ala Ala Glu Lys Arg Gly Ser Asn
84              245                 250                  255
87 Leu Glu Val Glu Leu Trp Leu Ile Thr Ala Phe His Asp Lys Gly Ser
88              260                 265                  270
91 Leu Thr Asp Tyr Leu Lys Gly Asn Ile Ile Thr Trp Asn Glu Leu Cys
92        275                 280                  285
95 His Val Ala Glu Thr Met Ser Arg Gly Leu Ser Tyr Leu His Glu Asp
96        290                 295                  300
99 Val Pro Trp Cys Arg Gly Glu Gly His Lys Pro Ser Ile Ala His Arg
100 305                 310                  315                    320
104 Asp Phe Lys Ser Lys Asn Val Leu Leu Lys Ser Asp Leu Thr Ala Val
105              325                 330                  335
108 Leu Ala Asp Phe Gly Leu Ala Val Arg Phe Glu Pro Gly Lys Pro Pro
109              340                 345                  350
112 Gly Asp Thr His Gly Gln Val Gly Thr Arg Arg Tyr Met Ala Pro Glu
113        355                 360                  365
116 Val Leu Glu Gly Ala Ile Asn Phe Gln Arg Asp Ala Phe Leu Arg Ile
117        370                 375                  380
120 Asp Met Tyr Ala Met Gly Leu Val Leu Trp Glu Leu Val Ser Arg Cys
121 385                 390                  395                    400
124 Lys Ala Ala Asp Gly Pro Val Asp Glu Tyr Met Leu Pro Phe Glu Glu
125              405                 410                  415
128 Glu Ile Gly Gln His Pro Ser Leu Glu Glu Leu Gln Glu Val Val Val
129              420                 425                  430
132 His Lys Lys Met Arg Pro Thr Ile Lys Asp His Trp Leu Lys His Pro
133        435                 440                  445
136 Gly Leu Ala Gln Leu Cys Val Thr Ile Glu Glu Cys Trp Asp His Asp
137        450                 455                  460
140 Ala Glu Ala Arg Leu Ser Ala Gly Cys Val Glu Glu Arg Val Ser Leu
141 465                 470                  475                    480
144 Ile Arg Arg Ser Val Asn Gly Thr Thr Ser Asp Cys Leu Val Ser Leu
145              485                 490                  495
148 Val Thr Ser Val Thr Asn Val Asp Leu Pro Pro Lys Glu Ser Ser Ile
149              500                 505                  510
152 <210> SEQ ID NO: 2
153 <211> LENGTH: 375
154 <212> TYPE: PRT
155 <213> ORGANISM: Human
157 <400> SEQUENCE: 2
160 Met Gln Lys Leu Gln Leu Cys Val Tyr Ile Tyr Leu Phe Met Leu Ile
161 1                5                  10                   15
164 Val Ala Gly Pro Val Asp Leu Asn Glu Asn Ser Glu Gln Lys Glu Asn
165              20                 25                   30
168 Val Glu Lys Glu Gly Leu Cys Asn Ala Cys Thr Trp Arg Gln Asn Thr
169        35                 40                   45
172 Lys Ser Ser Arg Ile Glu Ala Ile Lys Ile Gln Ile Leu Ser Lys Leu
173        50                 55                   60
176 Arg Leu Glu Thr Ala Pro Asn Ile Ser Lys Asp Val Ile Arg Gln Leu
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/689,677A

DATE: 04/09/2004
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Input Set : A:\sequences for 08702.0093-00000.txt
Output Set: N:\CRF4\04092004\J689677A.raw

```
177 65                      70                      75                      80
180 Leu Pro Lys Ala Pro Pro Leu Arg Glu Leu Ile Asp Gln Tyr Asp Val
181                 85                  90                  95
184 Gln Arg Asp Asp Ser Ser Asp Gly Ser Leu Glu Asp Asp Asp Tyr His
185                 100                 105                 110
188 Ala Thr Thr Glu Thr Ile Ile Thr Met Pro Thr Glu Ser Asp Phe Leu
189             115                 120                 125
192 Met Gln Val Asp Gly Lys Pro Lys Cys Cys Phe Phe Lys Phe Ser Ser
193         130                 135                 140
196 Lys Ile Gln Tyr Asn Lys Val Val Lys Ala Gln Leu Trp Ile Tyr Leu
197 145                 150                 155                 160
200 Arg Pro Val Glu Thr Pro Thr Thr Val Phe Val Gln Ile Leu Arg Leu
201                 165                 170                 175
204 Ile Lys Pro Met Lys Asp Gly Thr Arg Tyr Thr Gly Ile Arg Ser Leu
205             180                 185                 190
208 Lys Leu Asp Met Asn Pro Gly Thr Gly Ile Trp Gln Ser Ile Asp Val
209         195                 200                 205
212 Lys Thr Val Leu Gln Asn Trp Leu Lys Gln Pro Glu Ser Asn Leu Gly
213     210                 215                 220
216 Ile Glu Ile Lys Ala Leu Asp Glu Asn Gly His Asp Leu Ala Val Thr
217 225                 230                 235                 240
221 Phe Pro Gly Pro Gly Glu Asp Gly Leu Asn Pro Phe Leu Glu Val Lys
222                 245                 250                 255
225 Val Thr Asp Thr Pro Lys Arg Ser Arg Arg Asp Phe Gly Leu Asp Cys
226             260                 265                 270
229 Asp Glu His Ser Thr Glu Ser Arg Cys Cys Arg Tyr Pro Leu Thr Val
230         275                 280                 285
233 Asp Phe Glu Ala Phe Gly Trp Asp Trp Ile Ile Ala Pro Lys Arg Tyr
234     290                 295                 300
237 Lys Ala Asn Tyr Cys Ser Gly Glu Cys Glu Phe Val Phe Leu Gln Lys
238 305                 310                 315                 320
241 Tyr Pro His Thr His Leu Val His Gln Ala Asn Pro Arg Gly Ser Ala
242             325                 330                 335
245 Gly Pro Cys Cys Thr Pro Thr Lys Met Ser Pro Ile Asn Met Leu Tyr
246         340                 345                 350
249 Phe Asn Gly Lys Glu Gln Ile Ile Tyr Gly Lys Ile Pro Ala Met Val
250         355                 360                 365
253 Val Asp Arg Cys Gly Cys Ser
254     370                 375
257 <210> SEQ ID NO: 3
258 <211> LENGTH: 378
259 <212> TYPE: PRT
260 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE: Chimera
262 <223> OTHER INFORMATION: Fusion
264 <400> SEQUENCE: 3
266 Met Lys Phe Leu Val Asn Val Ala Leu Val Phe Met Val Val Tyr Ile
267 1               5                   10                  15
270 Ser Tyr Ile Tyr Ala Thr Ser Gly Arg Gly Glu Ala Glu Thr Arg Glu
```

W--> (handwritten annotations:)
"move to <223>"
"delete"
"Mandatory, please do NOT insert any responses in Section <220>."
"Line <220> must be kept blANK at all times!"

4/9/04

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/689,677A

DATE: 04/09/2004
TIME: 16:19:57

Input Set : A:\sequences for 08702.0093-00000.txt
Output Set: N:\CRF4\04092004\J689677A.raw

```
271                 20                  25                  30
274 Cys Ile Tyr Tyr Asn Ala Asn Trp Glu Leu Glu Arg Thr Asn Gln Ser
275         35                  40                  45
279 Gly Leu Glu Arg Cys Glu Gly Glu Gln Asp Lys Arg Leu His Cys Tyr
280         50                  55                  60
283 Ala Ser Trp Arg Asn Ser Ser Gly Thr Ile Glu Leu Val Lys Lys Gly
284 65                  70                  75                  80
287 Cys Trp Leu Asp Asp Phe Asn Cys Tyr Asp Arg Gln Glu Cys Val Ala
288             85                  90                  95
291 Thr Glu Glu Asn Pro Gln Val Tyr Phe Cys Cys Cys Glu Gly Asn Phe
292             100                 105                 110
295 Cys Asn Glu Arg Phe Thr His Leu Pro Glu Ala Gly Gly Pro Glu Val
296         115                 120                 125
299 Thr Tyr Glu Pro Pro Pro Thr Ala Pro Thr Gly Gly Arg Gly Asp Asp
300     130                 135                 140
303 Asp Asp Lys Thr Arg Ser Arg Asp Lys Thr His Thr Cys Pro Pro Cys
304 145                 150                 155                 160
307 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
308             165                 170                 175
311 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
312             180                 185                 190
315 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
316         195                 200                 205
319 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
320     210                 215                 220
323 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
324 225                 230                 235                 240
327 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
328             245                 250                 255
331 Lys Ala Leu Pro Val Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
332             260                 265                 270
335 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
336         275                 280                 285
340 Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
341     290                 295                 300
344 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
345 305                 310                 315                 320
348 Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
349             325                 330                 335
352 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
353         340                 345                 350
356 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
357         355                 360                 365
360 Gln Lys Ser Leu Ser Leu Ser Pro Pro Lys
361     370                 375
364 <210> SEQ ID NO: 4
365 <211> LENGTH: 1134
366 <212> TYPE: DNA
367 <213> ORGANISM: Artificial Sequence
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```
W--> 368   <220> FEATURE: Chimera          ← move to <223>)  Same error
     369   <223> OTHER INFORMATION: Fusion
     371   <400> SEQUENCE: 4
     372   atgaaattct tagtcaacgt tgcccttgtt tttatggtcg tgtacatttc ttacatctat    60
     374   gcgactagtg ggcgtgggga ggctgagaca cgggagtgca tctactacaa cgccaactgg   120
     376   gagctggagc gcaccaacca gagcggcctg gagcgctgcg aaggcgagca ggacaagcgg   180
     378   ctgcactgct acgcctcctg gcgcaacagc tctggcacca tcgagctcgt gaagaagggc   240
     380   tgctggctag atgacttcaa ctgctacgat aggcaggagt gtgtggccac tgaggagaac   300
     382   ccccaggtgt acttctgctg ctgtgaaggc aacttctgca cgagcgctt cactcatttg    360
     384   ccagaggctg ggggcccgga agtcacgtac gagccacccc cgacagcccc caccggcggc   420
     386   cgcggagacg acgacgacaa gacgcgttct agagacaaaa ctcacacatg cccaccgtgc   480
     388   ccagcacctg aactcctggg gggaccgtca gtcttcctct tcccccccaaa acccaaggac   540
     390   accctcatga tctcccggac ccctgaggtc acatgcgtgg tggtggacgt gagccacgaa   600
     392   gaccctgagg tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca   660
     394   aagccgcggg aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg   720
     396   caccaggact ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca   780
     398   gtccccatcg agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac   840
     400   accctgcccc catcccggga ggagatgacc aagaaccagg tcagcctgac ctgcctggtc   900
     402   aaaggcttct atcccagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac   960
     404   aactacaaga ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctatagcaag  1020
     406   ctcaccgtgg acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat  1080
     408   gaggctctgc acaaccacta cacgcagaag agcctctccc tgtccccgcc taaa         1134
     411   <210> SEQ ID NO: 5
     412   <211> LENGTH: 4
     413   <212> TYPE: PRT
     414   <213> ORGANISM: Artificial Sequence    move to <223>)  Same error
W--> 415   <220> FEATURE: Linking Sequence
     416   <223> OTHER INFORMATION: Gly-Ser repeat
     418   <400> SEQUENCE: 5
     420   Gly Ser Gly Ser
     421   1
     424   <210> SEQ ID NO: 6
     425   <211> LENGTH: 4
     426   <212> TYPE: PRT
     427   <213> ORGANISM: Artificial Sequence   move to <223>, Same error
W--> 428   <220> FEATURE: Linking Sequence
     429   <223> OTHER INFORMATION: Enterokinase Cleavage Site
     431   <400> SEQUENCE: 6
     433   Asp Asp Asp Lys
     434   1
```

VERIFICATION SUMMARY   DATE: 04/09/2004
PATENT APPLICATION: **US/10/689,677A**   TIME: 16:19:59

Input Set : **A:\sequences for 08702.0093-00000.txt**
Output Set: **N:\CRF4\04092004\J689677A.raw**

```
L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:261 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:368 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:415 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:428 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
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